# NVIDIA QUADRO FX by PNY TECHNOLOGIES

| www.pny.eu | Entry-Level | | | Mid-Range | | High-End |
|---|---|---|---|---|---|---|
| | NVIDIA Quadro FX 550 (P456) | NVIDIA Quadro FX 560 (P456) | NVIDIA Quadro FX 570 (P588) | NVIDIA Quadro FX 1500 (P455) | NVIDIA Quadro FX 1700 (P588) | NVIDIA Quadro FX 3500 (P455) |
| **Bus Connector** | PCI-Express x16 | PCI-Express x16 | PCI-Express x16 | PCI-Express x16 | PCI-Express x16 | PCI-Express x16 |
| **PCI-E Bandwith** | 8 GB/s (4 GB/s each direction) | 8 GB/s (4 GB/s each direction) | PCI-E Gen2 Compatible 16 GB/s (8GB/s each direction) | 8 GB/s (4 GB/s each direction) | PCI-E Gen2 Compatible 16 GB/s (8GB/s each direction) | 8 GB/s (4 GB/s each direction) |
| **GPU NVIDIA Quadro** | NV43GL | G73GL | G84-850 | G71GL | G84-875 | G71GL |
| **Core Clock** | 360 MHz | 350 MHz | 460 MHz | 325 MHz | 460 MHz | 450 MHz |
| **Frame Buffer** | 128 MB | 128 MB | 256 MB | 256 MB | 512MB | 256 MB |
| **Memory Interface** | 128 bit | 128 bit | 128 bit | 256bit | 128 bit | 256bit |
| **Memory Type** | GDDR3 SDRAM | GDDR3 SDRAM | DDR2 SDRAM | GDDR3 SDRAM | DDR2 SDRAM | GDDR3 SDRAM |
| **Memory Clock** | 400 (800) MHz | 300 (600) MHz | 400 (800) MHz | 625 (1250) MHz | 400 (800) MHz | 660 (1320) MHz |
| **Memory Bandwidth** | 12,8 GB/sec. | 19,2 GB/sec. | 12,8 GB/sec. | 40,0 GB/sec. | 12,8 GB/sec. | 42,2 GB/sec. |
| **RAMDAC** | Dual 400 MHz | Dual 400 MHz | Dual 400 MHz | Dual 400 MHz | Dual 400 MHz | Dual 400 MHz |
| **Power consumption** | 26 Watt | 30 Watt | 38 Watt | 65 Watt | 42 Watt | 80 Watt |
| **PCI Express Power Connector** | - | - | - | - | - | 1 |
| **Outputs** | 2 x DVI-I | 2 x DVI-I, 1x HDTV | 2 x DVI-I | 2 x DVI-I, 1x HDTV | 2 x DVI-I, 1x HDTV | 2x DVI-I, 3D Stereo |
| **Max Displays / Card** | 2 | 2 | 2 | 2 | 2 | 2 |
| **Dual-Link DVI-I outputs** | - | 1 | 2 | 2 | 2 | 2 |
| **Adapters (Included)** | 2x DVI-I to VGA | 2x DVI-I to VGA | 2x DVI-I to VGA | 2x DVI-I to VGA | 2x DVI-I to VGA | 2x DVI-I to VGA |
| **HDTV Output** | - | 7 pin mini DIN | - | 7 pin mini DIN | 7 pin mini DIN | - |
| **HDCP Support** | - | - | Yes | - | Yes | - |
| **Stereo connector** | - | - | - | - | - | 3 pin mini DIN |
| **Genlock / Framelock** | - | - | - | - | - | - |
| **2D/3D** | 2D/3D | 2D/3D | 2D/3D | 2D/3D | 2D/3D | 2D/3D |
| **2D/3D max resolution analog** | 2048x1536 @ 85 Hz | 2048x1536 @ 85 Hz | 2048x1536 @ 85 Hz | 2048x1536 @ 85 Hz | 2048x1536 @ 85 Hz | 2048x1536 @ 85 Hz |
| **2D/3D max resolution digital** | 1900x1200 @ 60 Hz | 1900x1200 @ 60Hz Single Link 2560x1600 @ 60Hz Dual Link | 2560x1600 @ 60Hz | 2560x1600 @ 60Hz | 2560x1600 @ 60Hz | 2560x1600 @ 60Hz |
| **Full-Scene Antialiasing max. (FSAA)** | 8x | 8x | 16x | 8x | 32x | 12x |
| **C-Programming Environment** | - | - | Yes | - | Yes | - |
| **OpenGL** | 2.0 | 2.0 | 2.1 | 2.0 | 2.1 | 2.0 |
| **Shader Model** | 3.0 | 3.0 | 4.0 | 3.0 | 4.0 | 3.0 |
| **DirectX** | 9.0c | 9.0c | 10.0 | 9.0c | 10.0 | 9.0c |
| **SLI frame rendering** | - | - | - | - | - | Yes |
| **Number of Slots** | 1 | 1 | 1 | 1 | 1 | 1 |
| **Physical dimensions** | 17,24cm x 11,12cm (6,8" x 4,376") | 17,24cm x 11,12cm (6,8" x 4,376") | 16,76cm x 11,12cm (6,6" x 4,376") | 19,81cm x 11,123cm (7,8" x 4,376") | 16,76cm x 11,12cm (6,6" x 4,376") | 19,81cm x 11,12cm (7,8" x 4,376") |
| **Universal Driver** | Yes | Yes | Yes | Yes | Yes | Yes |
| **Cooling System** | Fan sink (active) 12Volt DC 23 dB | Fan sink (active) 12Volt DC 23 dB | Fan sink (active) 12Volt DC 29 dB | Fan sink (active) 12 Volt DC 45 dB | Fan sink (active) 12Volt DC 29 dB | Fan sink (active) 12 Volt DC 45 dB |
| **Guarantee** | 3 years | 3 years | 3 years | 3 years | 3 years | 3 years |
| **Geometry (Triangles per Sec.)** | 66 Million | 126 Million | 137 Million | 144 Million | 191 Million | 174 Million |
| **Fill Rate (Texels per Sec.)** | 1,4 Billion | 2,8 Billion | 3,7 Billion | 6,0 Billion | 7.4 Billion | 9,4 Billion |
| **Article No. Retail** | VCQFX550-PCIE-PB | VCQFX560-PCIE-PB | VCQFX570-PCIE-PB | VCQFX1500-PCIE-PB | VCQFX1700-PCIE-PB | VCQFX3500-PCIE-PB |
| **EAN code** | 3536403331009 | 3536403331016 | 3536403333157 | 3536403331139 | 3536403333171 | 3536403331030 |
| **Article No. 10 pack Bulk** | VCQFX550-PCIEBLK-1 | VCQFX560-PCIEBLK-1 | VCQFX570-PCIEBLK-1 | VCQFX1500-PCIEBLK-1 | VCQFX1700-PCIEBLK-1 | VCQFX3500-PCIEBLK-1 |

| **3D Application Performance[2]** | | | | | | |
|---|---|---|---|---|---|---|
| **3dsmax-04** | 19.56 | 27.90 | 30.02 | 30.63 | 34.73 | 33.36 |
| **catia-02** | 23.63 | 38.92 | 41.57 | 40.44 | 44.47 | 43.06 |
| **ensight-03** | 9.05 | 16.05 | 23.03 | 17.18 | 29.38 | 17.47 |
| **light-08** | 32.68 | 37.24 | 37.68 | 37.39 | 37.76 | 37.51 |
| **maya-02** | 44.21 | 71.94 | 73.01 | 85.31 | 110.80 | 108.10 |
| **proe-04** | 16.24 | 28.45 | 32.48 | 31.18 | 39.51 | 37.22 |
| **sw-01** | 25.32 | 36.44 | 44.84 | 41.16 | 56.12 | 49.84 |
| **tcvis-01** | 4.40 | 6.87 | 9.09 | 7.95 | 15.04 | 10.56 |
| **ugnx-01** | 5.36 | 9.53 | 8.91 | 10.66 | 14.29 | 14.91 |

[2]SPECviewperf® 9: for more information visit www.spec.org. Tested on 3 GHz Dual Core Duo Xeon® , Driver Release 97.00 (FX370, FX570, FX1700 tested with driver rel. 160+)

*** Features and specifications are subject to change without notice.**